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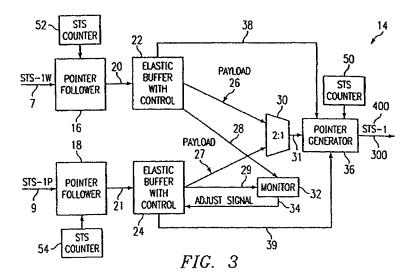
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(54) Method and system for hit-less switching

(57) A system and method are disclosed for processing digital signals in a telecommunications system that allow hit-less switching between a first digital signal in which a first payload, a first payload indicator marker and a first overhead are transported on a first channel, and a second digital signal in which a second payload identical to the first payload, a second payload indicator marker and a second overhead are transported on a second channel. The present invention includes

first and second pointer followers, first and second elastic buffers with control circuits, a monitor circuit, a multiplexer, and a pointer generator. The first and second elastic buffer control circuits each further comprise a write counter, a read counter, a phase detector, and a leak-out mechanism for reinitializing the system after a protection switch. The present invention hit-lessly selects between the first and second digital signals without having to frame align the signals.





EUROPEAN SEARCH REPORT

Application Number EP 99 12 0995

	DOCUMENTS CONSIDERE			
ategory	Citation of document with indication of relevant passages	n, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL7)
A,D	US 5 051 979 A (CHAUDHU 24 September 1991 (1991 * abstract * * figures 2,4-8 * * column 2, line 5 - co * column 5, line 57 - c * claims 1,2,7,8,10,11,	-09-24) lumn 2, line 34 * olumn 6, line 25 *	1-33	TECHNICAL FIELDS SEARCHED (Int.CL7) H04J H04B H04L H04Q
	The present search report has been di			
Place of search		Date of completion of the search	и	Exeminer
X : parti Y : parti docu A : tech O : non-	THE HAGUE ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if tombined with another ument of the same category inclogical background -written disclosure imediate document	28 August 2002 T: theory or principle E: earlier patent document died in L: document cited in L: document cited for 8: member of the san	underlying the in ment, but publis the application other reasons	hed on, or

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 12 0995

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-08-2002

Patent document cited in search report			Patent family member(s)	Publication date
A	24-09-1991	DE DE EP ES JP JP JP	69129048 D1 69129048 T2 0463808 A2 2114879 T3 2079042 C 5110544 A 7110004 B	16-04-1998 02-07-1998 02-01-1992 16-06-1998 09-08-1996 30-04-1993 22-11-1995
	port	port date	A 24-09-1991 DE DE EP ES JP JP	A 24-09-1991 DE 69129048 D1 DE 69129048 T2 EP 0463808 A2 ES 2114879 T3 JP 2079042 C JP 5110544 A

Por more details about this annex : see Official Journal of the European Patent Office, No. 12/82